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C04B 41/87**(21)Application number : **2002-117577**(71)Applicant : **MITSUBISHI MATERIALS CORP**(22)Date of filing : **19.04.2002**(72)Inventor : **TAJIMA ITSURO
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(30)Priority

Priority number : **2001377381** Priority date : **11.12.2001** Priority country : **JP****(54) CUTTING TIP MADE OF CUBIC CRYSTAL BORON NITRIDE GROUP ULTRAHIGH PRESSURE SINTERED MATERIAL HAVING EXCELLENT RESISTANCE TO CHIPPING**

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a cutting tip made of a cubic crystal boron nitride group ultrahigh pressure sintered material having excellent resistance to chipping.

SOLUTION: This cutting tip made of the cubic crystal boron nitride group ultrahigh pressure sintered material is made of the cubic crystal boron nitride group ultrahigh pressure sintered material which is a sintered body of press molding having a blending composition composed of two kinds or more of titanium nitride, titanium carbonitride, and titanium carbide or titanium carbonitride as a connection phase formation component of 15 to 45% by mass % which show three phase texture of a connection phase, a dispersed phase, and an intermediate close adhesion phase provided between cubic crystal boron nitride constituting the dispersed phase and the connection phase substantially by observation of texture using a scanning type electronic microscope, an intermetallic compound of Ti and Al as an intermediate close adhesion phase formation component of 2 to 12%, tungsten carbide of 2 to 10%, aluminum oxide as a dispersed phase formation component of 2 to 12%, and cubic crystal boron nitride of remaining parts (containing 40 to 65%).

LEGAL STATUS

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